

CONSTRUCTION CRAFT LABORER

A student who has completed Job Corps' Construction Craft Laborer program is trained and ready to work in this field. To complete a trade, the student must learn the academic and vocational skills required for graduation. Job Corps students also learn good work and personal habits, preparing them for life after Job Corps. To complete the Construction Craft Laborer program, a student must master skills in the following categories:

General Laborer

EMPLOYABILITY SKILLS

Dress appropriately, be punctual, follow directions and respond to supervision; demonstrate skills in problem-solving, workplace communication, teamwork, and customer service; demonstrate proper use of tools and equipment.

SAFETY

Identify and use protective equipment such as goggles, helmets, and safety shoes; locate and use Material Safety Data Sheet (MSDS); implement safety procedures such as first aid and emergency procedures; use proper technique for safely moving materials; inspect work area and machine safeguards and report safety risks; explain purpose of safety training and lock-out/TAG-out.

PRE-CONSTRUCTION TRAINING

Moving and stacking of construction materials such as concrete block, lumber, sand, and gravel; scaffold erection; form and grade construction.

PHYSICAL APTITUDE

Demonstrate good hand-eye coordination; lift and carry heavy loads safely; maintain stamina to work full shift.

OCCUPATIONAL KNOWLEDGE

Know and recognize types, sizes, and grades of construction and building materials.

MATH AND MEASUREMENTS

Be able to add, subtract, multiply, measure dimensions, calculate volume, find plumb and level, and calculate amount of material needed for a project.

HAND TOOLS

Recognize the various hand tools of the industry.

Advanced Laborer I

(General Laborer skills plus the following:)

POWER TOOLS

Demonstrate understanding and safe use of electric tools, pneumatic tools and small gasoline engines.

OXYFUEL

Conduct safety checklist and perform safety procedures; use of proper PPE; understand equipment and burning of the oxyfuel process; conduct proper maintenance of torch handle and welding hose; properly perform oxyfuel cutting and shut down cutting torch.

LEADERSHIP SKILLS

Mentor and teach individuals with less experience; recognize and mitigate safety hazards.

CONCRETE

Mixing and placement of concrete; hand-screed concrete; power-screed concrete; basic use of concrete tools; proper maintenance of concrete tools; understand concrete placement hazards.

READING

Reading installation instruction for materials, gauges and meters, MSDSs and labels, level and transits, safety posters and signs, equipment operation instructions, safety information bulletins, work policy and regulations.

TRAFFIC WORK ZONE SAFETY

Understand traffic work zones and traffic control safety; know and use traffic control personal protective equipment; understand nighttime hazards.

Advanced Laborer II

(Advanced Laborer I skills plus the following:)

OCCUPATIONAL SKILLS: SOIL COMPACTION AND HAND SIGNALS

Soil compaction: recognize various types of soil, understand lifts and maintaining their depth, use proper PPE, properly use and maintain compaction equipment; understand and properly execute hand signals for cranes and earth equipment; use safe work practices when signaling.

HOISTING AND RIGGING

Understand load weights and rated lifting capacities; properly use hooks, shackles, thimbles and clips; inspect hoisting equipment for damage; properly use synthetic material slings, wire rope, fiber and synthetic rope, and chains for rigging and hoisting material; demonstrate the bowline knot, clove hitch and the half hitch; use tag lines.

BLUEPRINT READING

Explain working drawings and identify individual sheets in a set of plans; explain scale and demonstrate use of different scales; recognize symbols and abbreviations; explain cutting planes and how they are represented; identify elevations, utilities and structures; demonstrate print reading skills through competency testing.

OPERATION OF EQUIPMENT: FORKLIFT AND SKID STEER MACHINE

Understand load weights and rated lifting capacities; complete proper pre-startup checklist and maintenance; proper operation and use of forklift and skid steer machine on level and uneven surfaces; demonstrate ground-level and above ground-level material moving; understand forklift and skid steer machine safety and operator certification.



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